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United States Department of Agriculture,

WASHINGTON, D. C., *October 31, 1918.*

MONTHLY LIST OF PUBLICATIONS.

[OCTOBER, 1918.]

READ CAREFULLY BEFORE ORDERING.

Send no remittances to the U. S. Department of Agriculture.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

NOTE.—The department's supply of the current numbers of Farmers' Bulletins is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

Eradication of Bermuda Grass. By Albert A. Hansen, Scientific Assistant, Office of Forage-Crop Investigations. Pp. 11, figs. 2. Contribution from the Bureau of Plant Industry. (**Farmers' Bulletin 945.**)

For distribution in the southern part of the United States.

Horse Beans. By Roland McKee, Assistant Agrostologist, Forage-Crop Investigations. Pp. 16, figs. 5. Contribution from the Bureau of Plant Industry. (**Farmers' Bulletin 969.**)

Suitable for distribution in the South Atlantic, Gulf, and Pacific Coast States.

Control of the Green Clover Worm in Alfalfa Fields. By Charles C. Hill, Scientific Assistant, Cereal and Forage Insect Investigations. Pp. 6, figs. 6. Contribution from the Bureau of Entomology. (**Farmers' Bulletin 982.**)

Especially suitable for distribution in the eastern half of the United States.

Cooperative Bull Associations. By Joel G. Winkjer, Dairy Division. Pp. 35, figs. 7. Contribution from the Bureau of Animal Industry. (**Farmers' Bulletin 993.**)

For general distribution.

Preventing Wood Rot in Pecan Trees. By S. M. McMurran, Assistant Pathologist. Pp. 8, figs. 10. Contribution from the Bureau of Plant Industry. (**Farmers' Bulletin 995.**)

A warning to growers of pecan trees regarding this trouble, which is caused by careless pruning and cultivation.

Crop Systems for Arkansas. By A. D. McNair, Agriculturist. Pp. 24, fig. 1. Contribution from the Office of Farm Management. (**Farmers' Bulletin 1000.**)

Cropping systems suggested for Arkansas, northern Louisiana, southeastern Oklahoma, western Tennessee, and northern Mississippi.

The Gas Tractor in Eastern Farming. By Arnold P. Yerkes, Agriculturist, and L. M. Church, Assistant in Farm Accounting. Pp. 32, figs. 3. Contribution from the Office of Farm Management. (**Farmers' Bulletin 1004.**)

A summary of the experiences of New York State farmers with tractors, and should help every farmer to decide whether or not a tractor would prove profitable to him.

The Wheat Jointworm and Its Control. By W. J. Phillips, Entomological Assistant, Cereal and Forage Insect Investigations. Pp. 14, figs. 17. Contribution from the Bureau of Entomology. (**Farmers' Bulletin 1006.**)

For general distribution.

Game Laws for 1918. A Summary of the Provisions of Federal, State, and Provincial Statutes. By George A. Lawyer and Frank L. Earnshaw. Pp. 70. Contribution from the Bureau of Biological Survey. (**Farmers' Bulletin 1010.**)

For general distribution.

Wintering Bees in Cellars. By E. F. Phillips, Apiculturist, and George S. Demuth, Apicultural Assistant. Pp. 24, figs. 3. Contribution from the Bureau of Entomology. (**Farmers' Bulletin 1014.**)

For general distribution.

DEPARTMENTAL BULLETINS—TECHNICAL.

The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information, as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

Potatoes: Acreage, Production, Foreign Trade, Supply, and Consumption. By George K. Holmes, Division of Crop Records. Pp. 24. Contribution from the Bureau of Crop Estimates. Oct. 16, 1918. (**Department Bulletin 695.**) Price, 5 cents.

This bulletin contains information which is of interest to the public at large as well as to those who are especially interested in potato production, trade, and consumption.

Grain-Sorghum Experiments in the Panhandle of Texas. By Carleton R. Ball and Benton E. Rothgeb, Office of Cereal Investigations. Pp. 91, figs. 13. Contribution from the Bureau of Plant Industry. (Professional Paper.) Oct. 31, 1918. (**Department Bulletin 698.**) Price, 15 cents.

Of interest to farmers in the section noted, and also in sections where climatic conditions are similar.

Analysis of Experimental Work With Ground Raw Rock Phosphate as a Fertilizer. By W. H. Waggoner and C. R. Wagner, Scientists in Investigation of Fertilizer Resources, and R. F. Gardiner, Scientist in Soil Laboratory Investigations. Pp. 119. Contribution from the Bureau of Soils. Oct. 16, 1918. (**Department Bulletin 699.**) Price, 10 cents.

A summary of results of experiments with ground raw phosphate rock as a fertilizer.

Climate and Plant Growth in Certain Vegetative Associations. By Arthur W. Sampson, Plant Ecologist. Pp. 72, figs. 37. Contribution from the Forest Service. (Professional Paper.) Oct. 14, 1918. (**Department Bulletin 700.**) Price, 15 cents.

Results of a series of experiments undertaken to obtain a comparison of the climatic requirements of the main plant types, and are of value both in experimental and in practical agriculture and forestry.

Apple Powdery Mildew and Its Control in the Arid Regions of the Pacific Northwest. By D. F. Fisher, Assistant Pathologist, Fruit-Disease Investigations. Pp. 27, pls. 3, figs. 2. Contribution from the Bureau of Plant Industry. (Professional Paper.) Oct. 29, 1918. (**Department Bulletin 712.**) Price, 10 cents.

Of interest to apple growers in the territory noted.

A Study of Farming in Southwestern Kentucky. By J. H. Arnold, Agriculturist. Pp. 19. Contribution from the Office of Farm Management. (Professional Paper.) Oct. 9, 1918. (Department Bulletin 713.) Price, 5 cents.
A study of 342 farms showing factors which make some farms more successful than others.

A Preliminary Study of the Bleaching of Oats With Sulphur Dioxid. By George H. Baston, Assistant Grain Supervisor. Pp. 11, figs. 3. Contribution from the Bureau of Markets. Oct. 22, 1918. (Department Bulletin 725.) Price, 5 cents.

Results of laboratory experiments with oats before and after bleaching. Of interest to chemists generally.

MISCELLANEOUS.

Rules and Regulations of the Secretary of Agriculture Under the Food Products Inspection Law of October 1, 1918. Pp. 8. Oct. 4, 1918. (Circular 120, Office of the Secretary.) Price, 5 cents.

Handling the 1918 Wheat Harvest in Kansas. By Edward C. Johnson, Dean, Division of College Extension, Kansas State Agricultural College. Pp. 7. October, 1918. (Circular 121, Office of the Secretary.) Price, 5 cents.

Labor Saving in Live-Stock Production. By George M. Rommel, Chief, Animal Husbandry Division. Pp. 14, figs. 6. Contribution from the Bureau of Animal Industry. Oct. 16, 1918. (Circular 122, Office of the Secretary.)

The Work of the Truckee-Carson Reclamation Project Experiment Farm in 1917. By F. B. Headley, Farm Superintendent. Pp. 24, figs. 1. (W. I. A. Circ. 23, Bureau of Plant Industry.)

SERIALS.

Journal of Agricultural Research. (For sale only.) Vol. 14, No. 12, Sept. 16, 1918. Contents: Resistance of Seeds to Desiccation. (pp G-154.) By George T. Harrington and William Crocker.—Occurrence of Coccidioid granuloma (Oldiomycosis) in Cattle. (pp A-43.) By L. T. Giltner.—Tissue Invasion by *Plasmodiophora brassicae*. (pp G-155.) By L. O. Kunkel. Pp. 525-572, pls. 22, figs. 2. Price, 30 cents.

Same, Vol. 14, No. 13, Sept. 23, 1918. Contents: An Improved Method for Recovering Trypanosomes from the Blood of Rats for Antigen Purposes in Connection with Complement Fixation. (pp A-42.) By F. H. Reynolds and H. W. Schoening.—Life History of *Pemphigus populi-transversus*. (pp K-71.) By Thomas H. Jones and C. P. Gillette.—Stem Lesions Caused by Excessive Heat. (pp G-156.) By Carl Hartley.—Work and Parasitism of the Mediterranean Fruit Fly in Hawaii during 1917. (pp K-72.) By C. E. Pemberton and H. F. Willard.—Corn-Rootrot and Wheatseab. (pp G-157.) By G. N. Hoffer, A. G. Johnson, and D. Atanasoff. Pp. 573-612, pls. 5, fig. 1. Price, 15 cents.

Same, Vol. 15, No. 1, Oct. 7, 1918. Contents: Studies in Inheritance of Certain Characters of Crosses between Dairy and Beef Breeds of Cattle. (pp Me-12.) By John W. Gowen. Pp. 1-58, pls. 6. Price, 20 cents.

Same, Vol. 15, No. 2, Oct. 14, 1918. Contents: Condition of Fertilizer Potash Residues in Hagerstown Silty Loam Soil. (pp Pa-8.) By William Frear and E. S. Erb.—Hardening Process in Plants and Development from Frost Injury. (pp G-158.) By R. B. Harvey.—Chemistry of Sweet-Clover Silage in Comparison with Alfalfa Silage. (pp Kans-15.) By C. O. Swanson and E. L. Tague. Pp. 59-132, pls. 4, figs. 6. Price, 20 cents.

NOTE.—Beginning with volume 5 the *Journal of Agricultural Research* has been issued weekly and is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being \$3 per year, 52 numbers.

The Monthly Crop Report. Vol. 4, No. 10, October, 1918. Pp. 117-132. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock. For free distribution.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

These contain *only* information, instructions, and notices governing the enforcement of the food and drugs act, meat inspection, 28-hour, and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Biological Survey. No. 24. Pp. 1. Oct. 22, 1918. Price, 5 cents.

Bureau of Chemistry. No. 23. Pp. 93-106. Oct. 9, 1918. Price, 5 cents.

Federal Horticultural Board. No. 55. August, 1918. Pp. 79-87. Oct. 31, 1918. Price, 5 cents.

Insecticide and Fungicide Board. No. 21. Pp. 435-450. Oct. 18, 1918. Price, 5 cents.

Bureau of Markets. No. 38. Pp. 24. Oct. 18, 1918. Price, 5 cents.

Bureau of Markets. No. 39. Pp. 4. Oct. 1, 1918. Price, 5 cents.

Bureau of Markets. No. 40. Pp. 4. Oct. 19, 1918. Price, 5 cents.

SOIL SURVEYS.

All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Berkeley County, South Carolina. By W. J. Latimer, F. Z. Hutton, Clarence Lounsbury, A. H. Meyer, and M. Earl Carr. Pp. 42, figs. 2, map. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Door County, Wisconsin. By W. G. Geib and Carl Thompson, of the U. S. Department of Agriculture, and H. V. Geib, of the Wisconsin Geological and Natural History Survey. Pp. 44, fig. 1. (From F. O. Soils, 1916.) Price, 15 cents.

Soil Survey of Milwaukee County, Wisconsin. By W. G. Geib, of the U. S. Department of Agriculture, and T. J. Dunnewald, of the Wisconsin Geological and Natural History Survey. Pp. 32, fig. 1. (From F. O. Soils, 1916.) Price, 15 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. Vol. 46, No. 7, July, 1918. [Oct. 31, 1918.] Pp. 307-351, charts 9, figs. 14. Price, 25 cents per copy, \$2.50 per year. Payable to the Superintendent of Documents.

Special Articles: Solar and sky radiation measurements during July, 1918. By H. H. Kimball.—Absorption and radiation of the solar atmosphere. By S. Hirayama.—Internal temperatures of the sun. By A. Veronnet.—Halo phenomena observed during July, 1918. By W. R. Gregg.—Report on modes of air motion and the equations of the general circulation of the earth's atmosphere. By G. P. Paine.—Influence of forests upon the melting of snow in the Cascade Range. By A. A. Griffin.—Snowfall on Mount Rainier, Wash. By L. C. Fisher.—On severe winters. By G. Hellmann.

Same, Supplement. No. 11. Aerology, No. 6. Free-Air Data at Drexel Aerological Station, July-December, 1917. By Willis Ray Gregg. Oct. 1, 1918. Pp. 108, figs. 11. Price, 25 cents.

Same, Supplement No. 12. Aerology No. 7. I. Free-Air Data at Drexel, Nebr., and Ellendale, N. Dak., Aerological Stations. January-March, 1918, inclusive. II. Free-Air Temperatures During the Cold Winter of 1917-18. III. The Ellendale Aerological Station. Pp. 82, figs. 10. Price, 25 cents.

National Weather and Crop Bulletin. Nos. 29, 30, 31, 32, 33, October, 1918, reporting temperature, rainfall, and crop conditions throughout the United States. Issued weekly, on Wednesday, April to October; monthly remainder of year. Price, 25 cents a year.

EDWY B. REID,
Chief, Division of Publications.